

**APPENDIX L GROUND ENGAGING COMPONENT COSTS INCLUDED
IN REPAIRS (RCF)**

APPENDIX L

Ground Engaging Component Costs Included in Repairs (RCF)

CATEGORY								Blade cutting edges, wear plates, hard facing, and end plates		Bucket teeth, cutting edges, side cutters, and wear plates	Ripper tips and shank protection	Equipment Specific Wear Items	RCF
SUB		DESCRIPTION	EK	C	DC	LIFE	SLV						
B15 0.00		BROOMS, STREET SWEEPERS & FLUSHERS	95	A	B	8,000	0.10	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
B25 0.00		BUCKETS, CLAMSHELL	15	A	B	8,000	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B25 0.00		BUCKETS, CLAMSHELL	15	S	B	6,500	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
B35 0.00		BUCKETS, DRAGLINE	1					<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B35 0.10		LIGHT WEIGHT	15	A	B	8,000	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B35 0.10		LIGHT WEIGHT	15	S	B	6,500	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
B35 0.20		MEDIUM WEIGHT	15	A	B	9,000	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B35 0.20		MEDIUM WEIGHT	15	S	B	7,000	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
B35 0.30		HEAVY WEIGHT	15	A	B	10,000	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
B35 0.30		HEAVY WEIGHT	15	S	B	8,000	0.10	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
G15 0.00		GRADERS, MOTOR	35	A	B	14,500	0.25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.75
G15 0.00		GRADERS, MOTOR	35	S	B	13,500	0.25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.85
H25 0.00		HYDRAULIC EXCAVATORS, CRAWLER MOUNTED	1					<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H25 0.10		0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)	65	A	B	8,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
H25 0.10		0 LBS THRU 12,500 LBS (COMPACT EXCAVATORS)	65	S	B	7,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
H25 0.11		OVER 12,500 LBS THRU 40,000 LBS	65	A	B	8,500	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
H25 0.11		OVER 12,500 LBS THRU 40,000 LBS	65	S	B	7,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.85
H25 0.12		OVER 40,000 LBS THRU 100,000 LBS	65	A	B	12,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
H25 0.12		OVER 40,000 LBS THRU 100,000 LBS	65	S	B	10,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.95
H25 0.13		OVER 100,000 LBS THRU 160,000 LBS	65	A	B	16,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.00
H25 0.13		OVER 100,000 LBS THRU 160,000 LBS	65	S	B	13,500	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
H25 0.14		OVER 160,000 LBS	65	A	B	19,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
H25 0.14		OVER 160,000 LBS	65	S	B	15,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
H30 0.00		HYDRAULIC EXCAVATORS, WHEEL MOUNTED	1					<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

EK=Economic Key (Appendix E)
LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)
SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)
RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

APPENDIX L

Ground Engaging Component Costs Included in Repairs (RCF)

CATEGORY								Blade cutting edges, wear plates, hard facing, and end plates		Bucket teeth, cutting edges, side cutters, and wear plates	Ripper tips and shank protection	Equipment Specific Wear Items	RCF
SUB	DESCRIPTION	EK	C	DC	LIFE	SLV							
H30 0.01	0 THRU 1.0 CY	65	A	B	8,000	0.25		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.50
H30 0.01	0 THRU 1.0 CY	65	S	B	6,500	0.25		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.55
H30 0.02	OVER 1.0 CY	65	A	B	10,000	0.25		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.60
H30 0.02	OVER 1.0 CY	65	S	B	8,000	0.25		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.65
H35 0.00	HYDRAULIC SHOVELS, CRAWLER MOUNTED	1						<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H35 0.11	DIESEL, 0 CY THRU 5.0 CY	65	A	B	14,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.00
H35 0.11	DIESEL, 0 CY THRU 5.0 CY	65	S	B	12,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
H35 0.12	DIESEL, OVER 5.0 CY	65	A	B	16,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.20
H35 0.12	DIESEL, OVER 5.0 CY	65	S	B	14,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.30
H35 0.21	ELECTRIC, OVER 2.5 CY	65	A	B	18,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
H35 0.21	ELECTRIC, OVER 2.5 CY	65	S	B	16,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.90
L35 0.00	LOADERS, FRONT END, CRAWLER TYPE	40	A	B	10,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
L35 0.00	LOADERS, FRONT END, CRAWLER TYPE	40	S	B	8,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
L40 0.00	LOADERS, FRONT END, WHEEL TYPE	1						<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L40 0.11	ARTICULATED, 0 THRU 225 HP	45	A	B	9,250	0.25		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
L40 0.11	ARTICULATED, 0 THRU 225 HP	45	S	B	8,750	0.25		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
L40 0.12	ARTICULATED, OVER 225 HP	45	A	B	13,500	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.70
L40 0.12	ARTICULATED, OVER 225 HP	45	S	B	12,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.75
L40 0.20	SKID STEER	45	A	B	8,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
L40 0.31	TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP	45	A	B	10,000	0.25		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
L40 0.31	TOOL CARRIER & TELESCOPIC HANDLERS, 0 THRU 225 HP	45	S	B	9,250	0.25		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
L40 0.32	TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP	45	A	B	12,000	0.15		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
L40 0.32	TOOL CARRIER & TELESCOPIC HANDLERS, OVER 225 HP	45	S	B	10,000	0.15		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
L45 0.00	LOADERS / BACKHOE, CRAWLER TYPE	40	A	B	8,000	0.20		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.35

EK=Economic Key (Appendix E)
LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)
SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)
RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

APPENDIX L

Ground Engaging Component Costs Included in Repairs (RCF)

CATEGORY								Blade cutting edges, wear plates, hard facing, and end plates		Bucket teeth, cutting edges, side cutters, and wear plates	Ripper tips and shank protection	Equipment Specific Wear Items	RCF
SUB		DESCRIPTION	EK	C	DC	LIFE	SLV						
L45	0.00	LOADERS / BACKHOE, CRAWLER TYPE	40	S	B	6,000	0.20	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.40
L50	0.00	LOADERS / BACKHOE, WHEEL TYPE	45	A	B	10,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.80
L50	0.00	LOADERS / BACKHOE, WHEEL TYPE	45	S	B	6,000	0.25	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.85
L60	0.00	LOG SKIDDERS	75	A	B	10,000	0.15	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.70
L60	0.00	LOG SKIDDERS	75	S	B	8,000	0.15	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
P35	0.00	PIPELAYERS	70	A	B	14,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.95
P35	0.00	PIPELAYERS	70	S	B	11,500	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.10
R30	0.00	ROLLERS, STATIC, SELF-PROPELLED	1					<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
R30	0.03	TAMPING FOOT, LANDFILL & SOIL COMPACTORS	55	A	B	12,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
S10	0.00	SCRAPERS, ELEVATING	1					<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
S10	0.01	0 THRU 200 HP	60	A	B	10,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
S10	0.01	0 THRU 200 HP	60	S	B	8,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.00
S10	0.02	OVER 200 HP	60	A	B	13,000	0.25	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.95
S10	0.02	OVER 200 HP	60	S	B	11,500	0.25	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.00
S15	0.00	SCRAPERS, CONVENTIONAL	60	A	B	15,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.80
S15	0.00	SCRAPERS, CONVENTIONAL	60	S	B	12,500	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
S20	0.00	SCRAPERS, TANDEM POWERED	60	A	B	15,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.85
S20	0.00	SCRAPERS, TANDEM POWERED	60	S	B	13,500	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.90
S25	0.00	SCRAPERS, TRACTOR DRAWN	60	A	B	12,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.70
S25	0.00	SCRAPERS, TRACTOR DRAWN	60	S	B	10,000	0.20	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.75
T15	0.00	TRACTORS, CRAWLER (DOZER) (includes blade)	1					<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T15	0.01	0 THRU 225 HP	70	A	B	10,000	0.30	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.10
T15	0.01	0 THRU 225 HP	70	S	B	8,000	0.30	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
T15	0.02	226 HP THRU 425 HP	70	A	B	12,500	0.25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.20

EK=Economic Key (Appendix E)
LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)
SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)
RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.

APPENDIX L

Ground Engaging Component Costs Included in Repairs (RCF)

CATEGORY								Blade cutting edges, wear plates, hard facing, and end plates		Bucket teeth, cutting edges, side cutters, and wear plates	Ripper tips and shank protection	Equipment Specific Wear Items	RCF
SUB		DESCRIPTION	EK	C	DC	LIFE	SLV						
T15	0.02	226 HP THRU 425 HP	70	S	B	10,500	0.25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.25
T15	0.03	OVER 425 HP	70	A	B	15,000	0.20	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.20
T15	0.03	OVER 425 HP	70	S	B	12,500	0.20	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.35
T20	0.00	TRACTORS, WHEEL TYPE (DOZER)	75	A	B	14,000	0.15	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.60
T20	0.00	TRACTORS, WHEEL TYPE (DOZER)	75	S	B	13,000	0.15	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.65

EK=Economic Key (Appendix E)
LIFE=Economic Life

C=Operating Conditions (A=average, S=severe)
SLV=Salvage Value

DC=Discount Code (B=basic 7.5%, S=special 15%)
RCF=Repair Cost Factor

Ground Engaging Component (GEC) is defined as those wear items on the machine that come in direct contact with in situ ground to perform the machines primary function. For machines with blades, GEC can include: cutting edges, wear plates, hard facing, and end plates. For machines with buckets, GEC can include: bucket teeth, cutting edges, side cutters, and wear plates. For machines with rippers, GEC can include: tips and shank protectors. Equipment Specific Wear items include those items of wear that are specific to that equipment. Not included in the Repairs and must be added as needed are: drill/bits, drill/steel, roadheader/rock breaking bits, air tools/breaker points/jackhammer points, concrete coring drill bits, and other wear items that are not shown here.